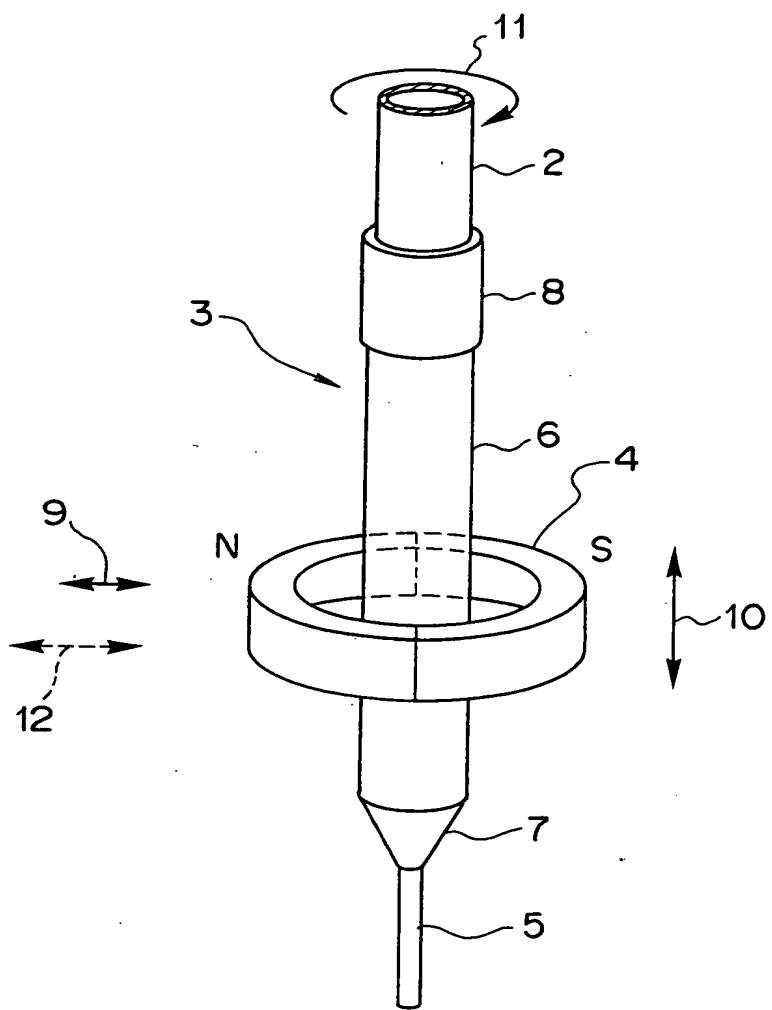


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F I G. 1

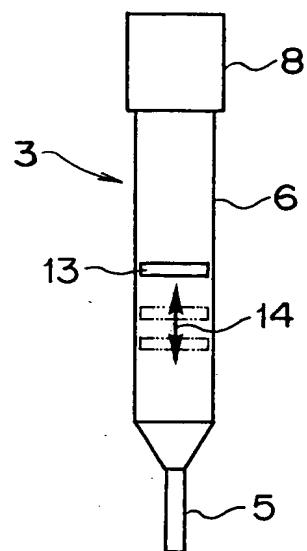
1



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FIG. 2

(a)



(b)

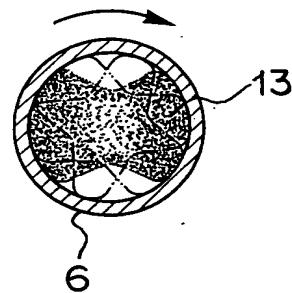


FIG. 3

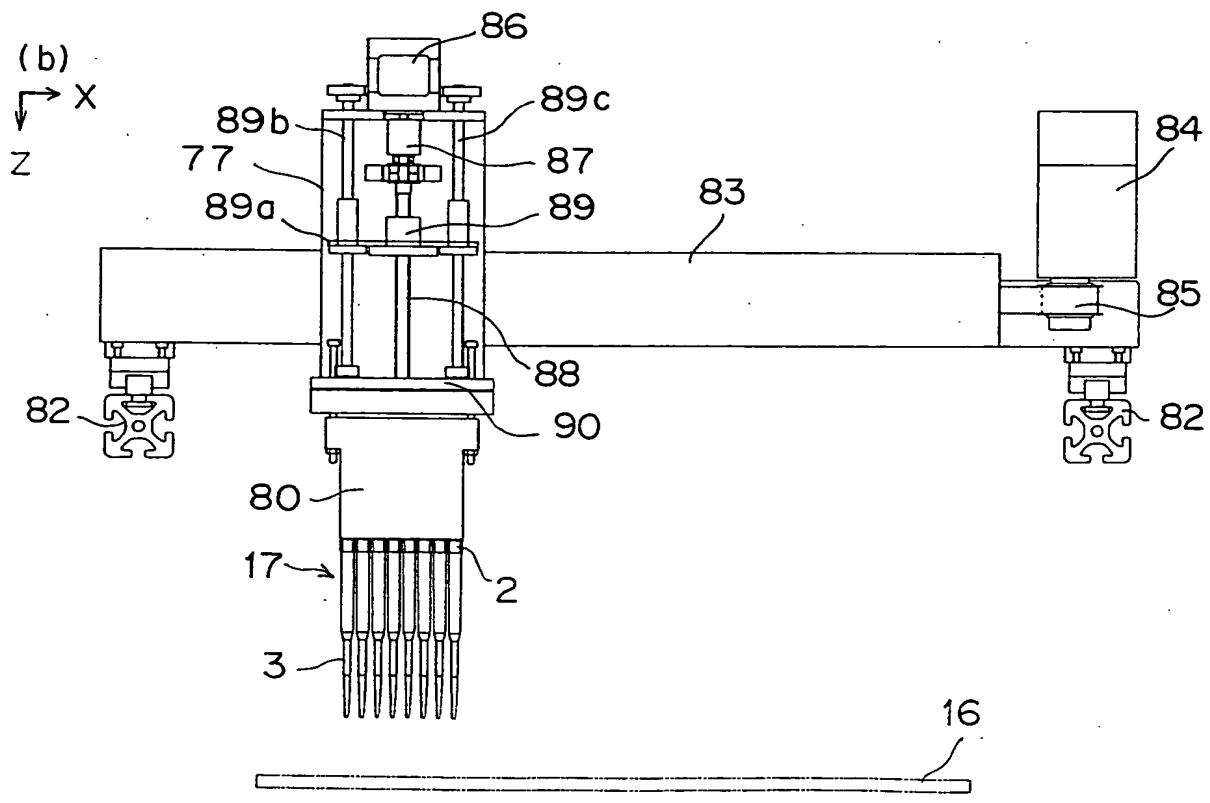
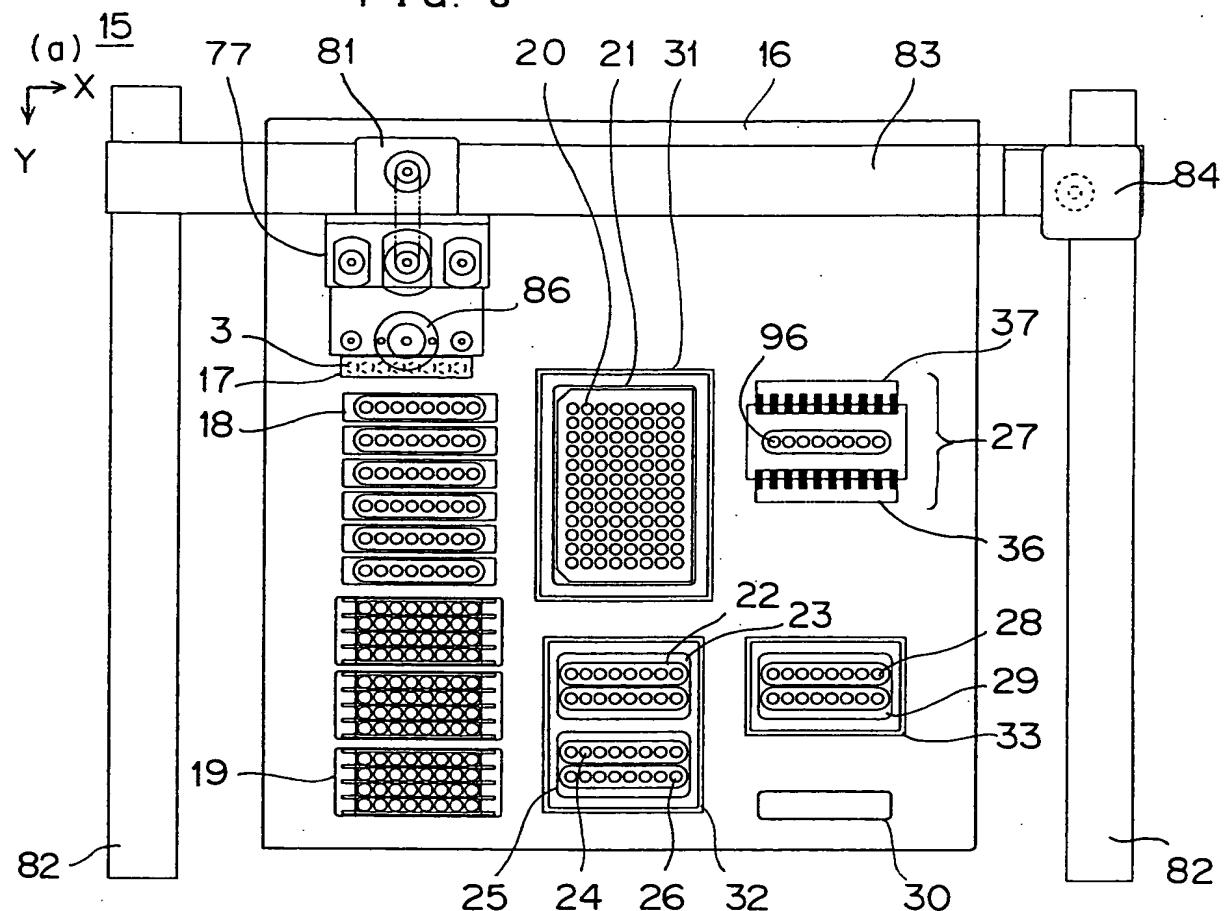
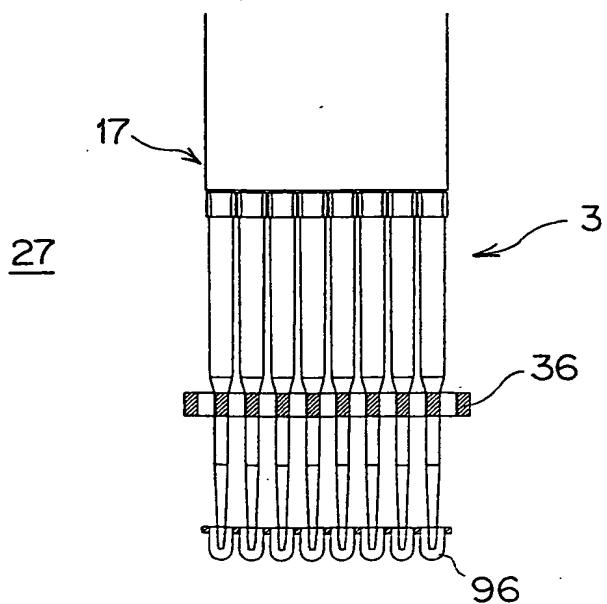
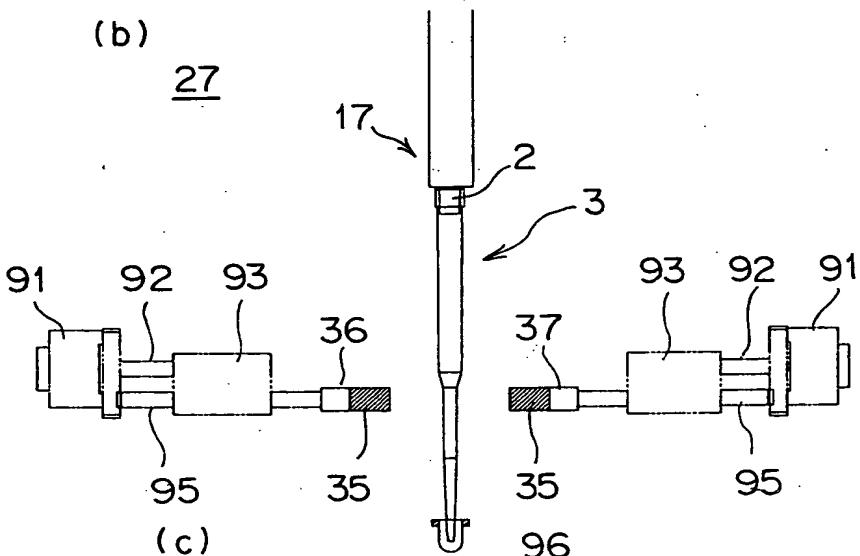
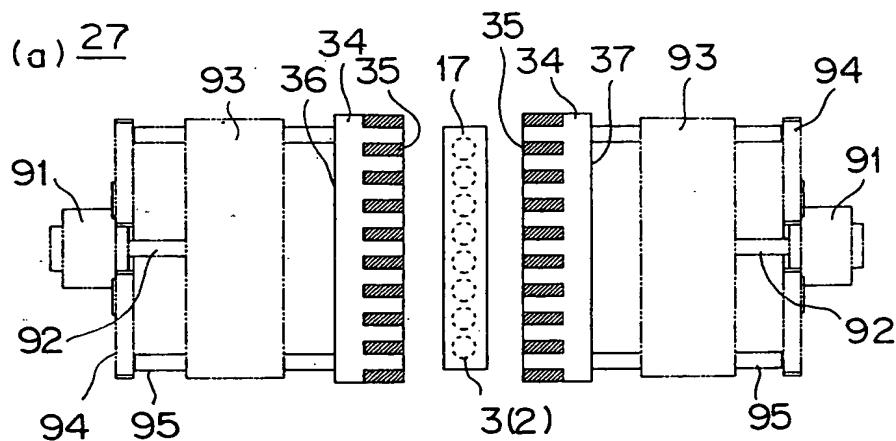
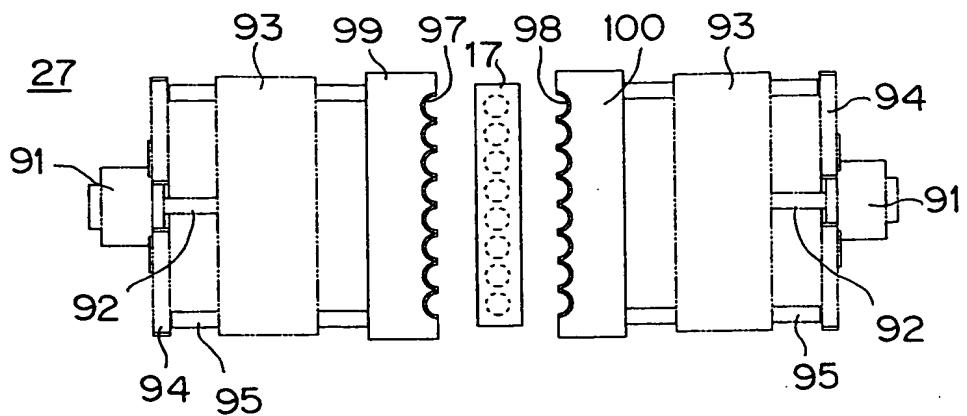


FIG. 4

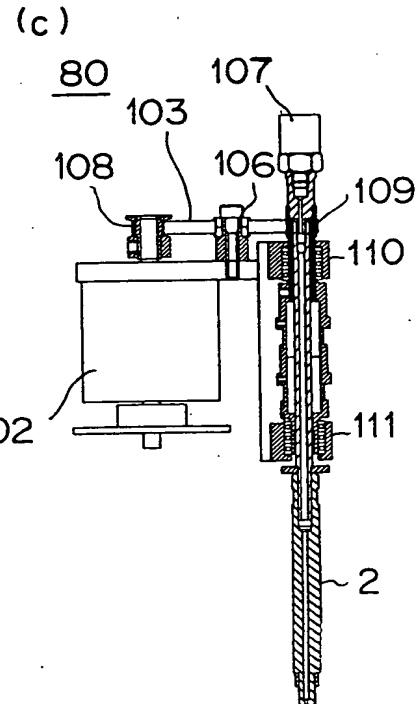
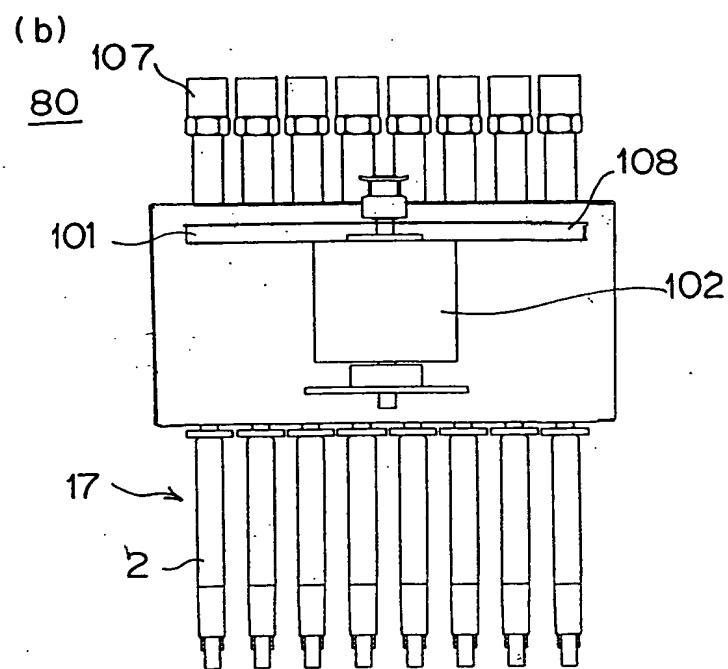
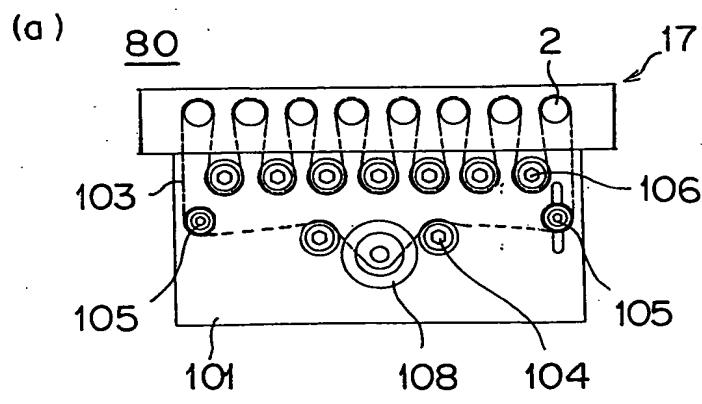


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F I G. 5



F I G. 6



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FIG. 7

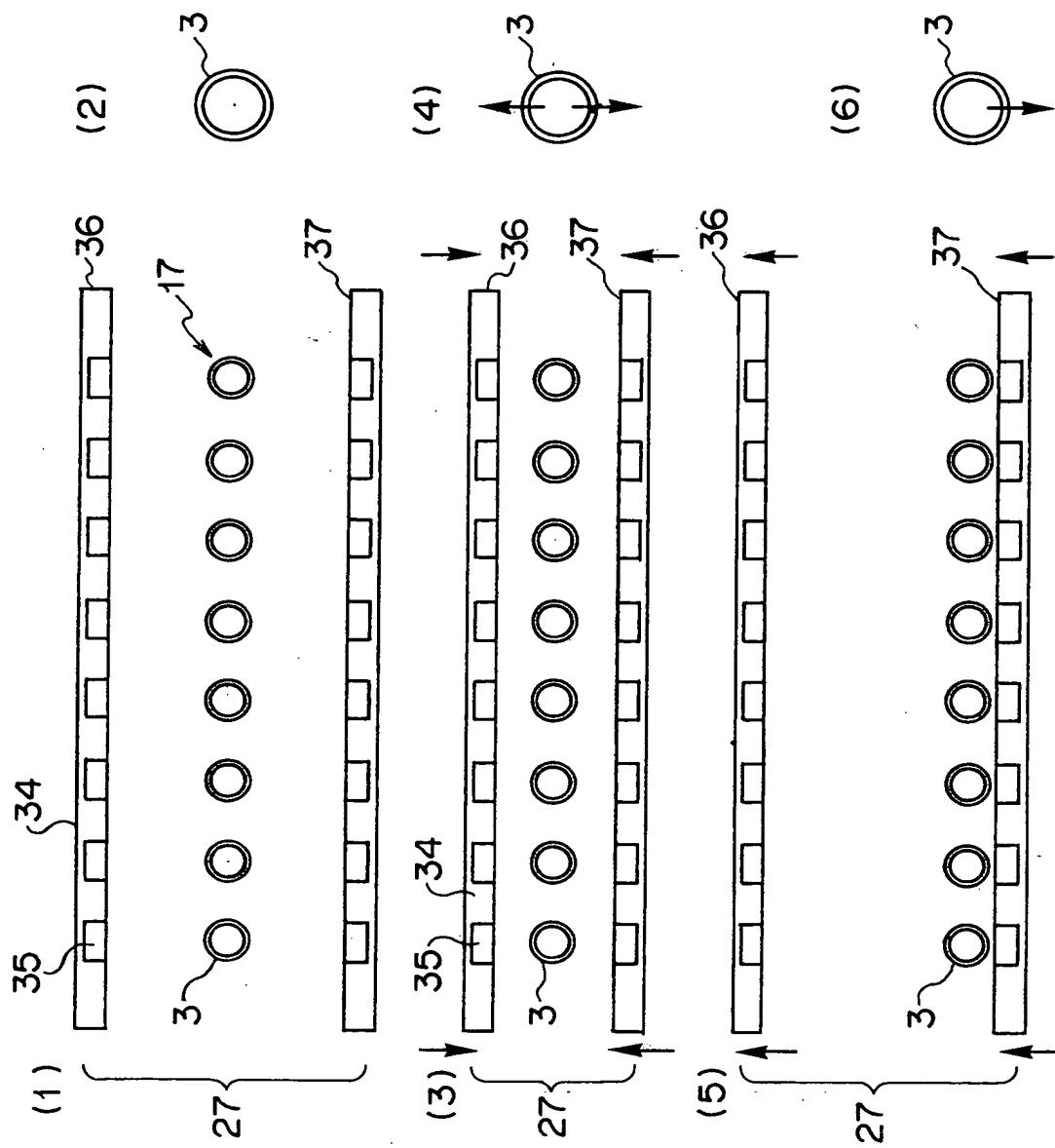
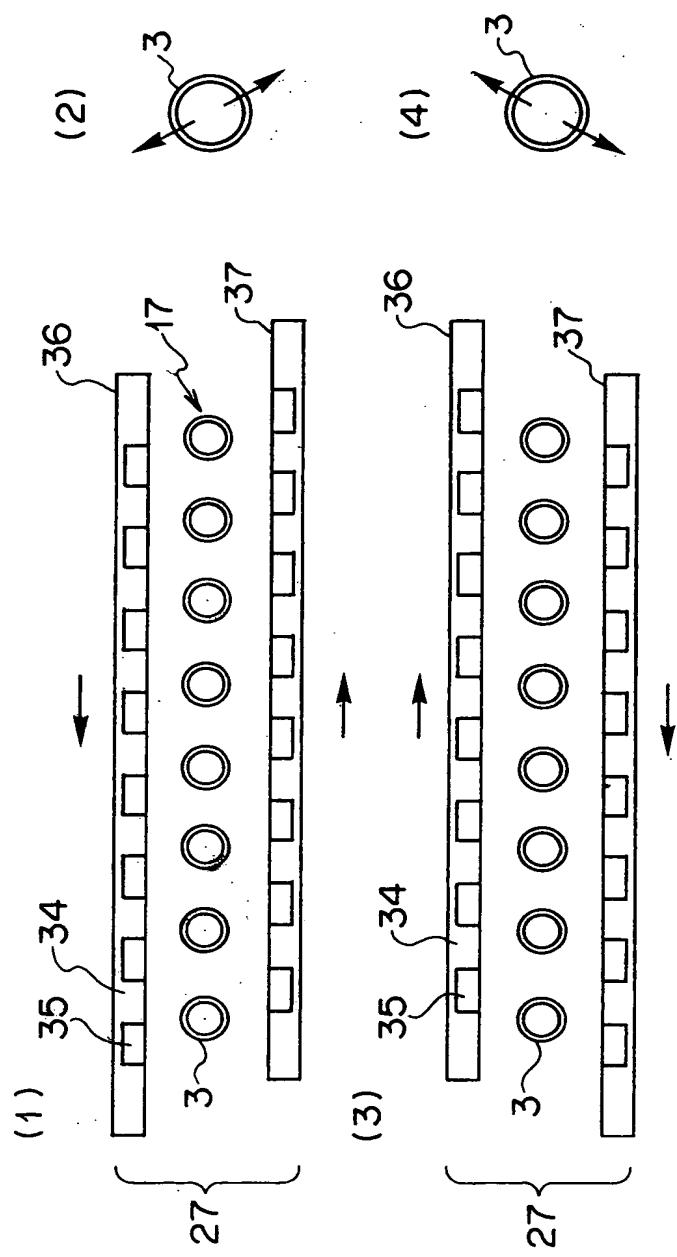
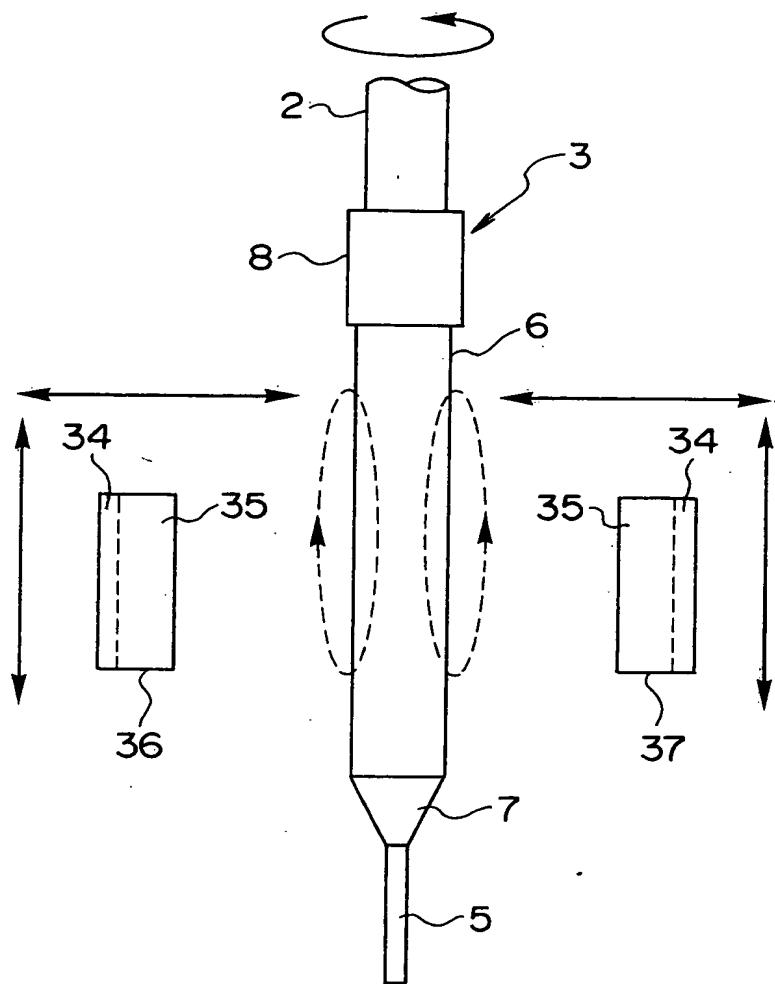


FIG. 8



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FIG. 9



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FIG. 10

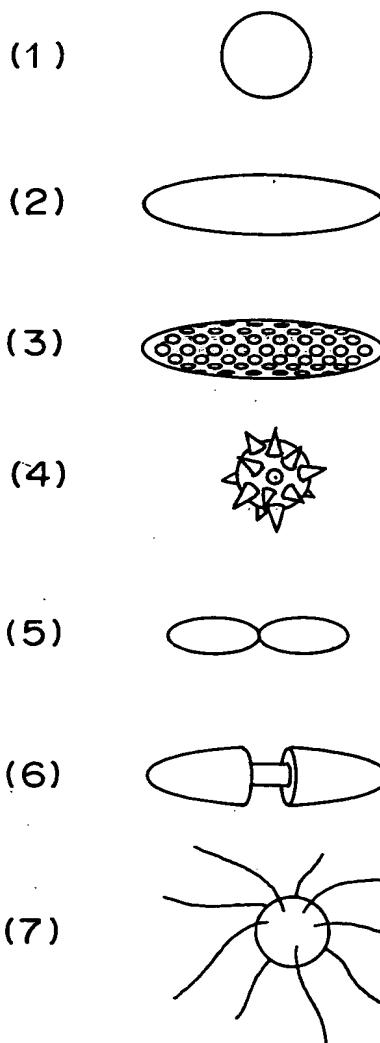


FIG. 11

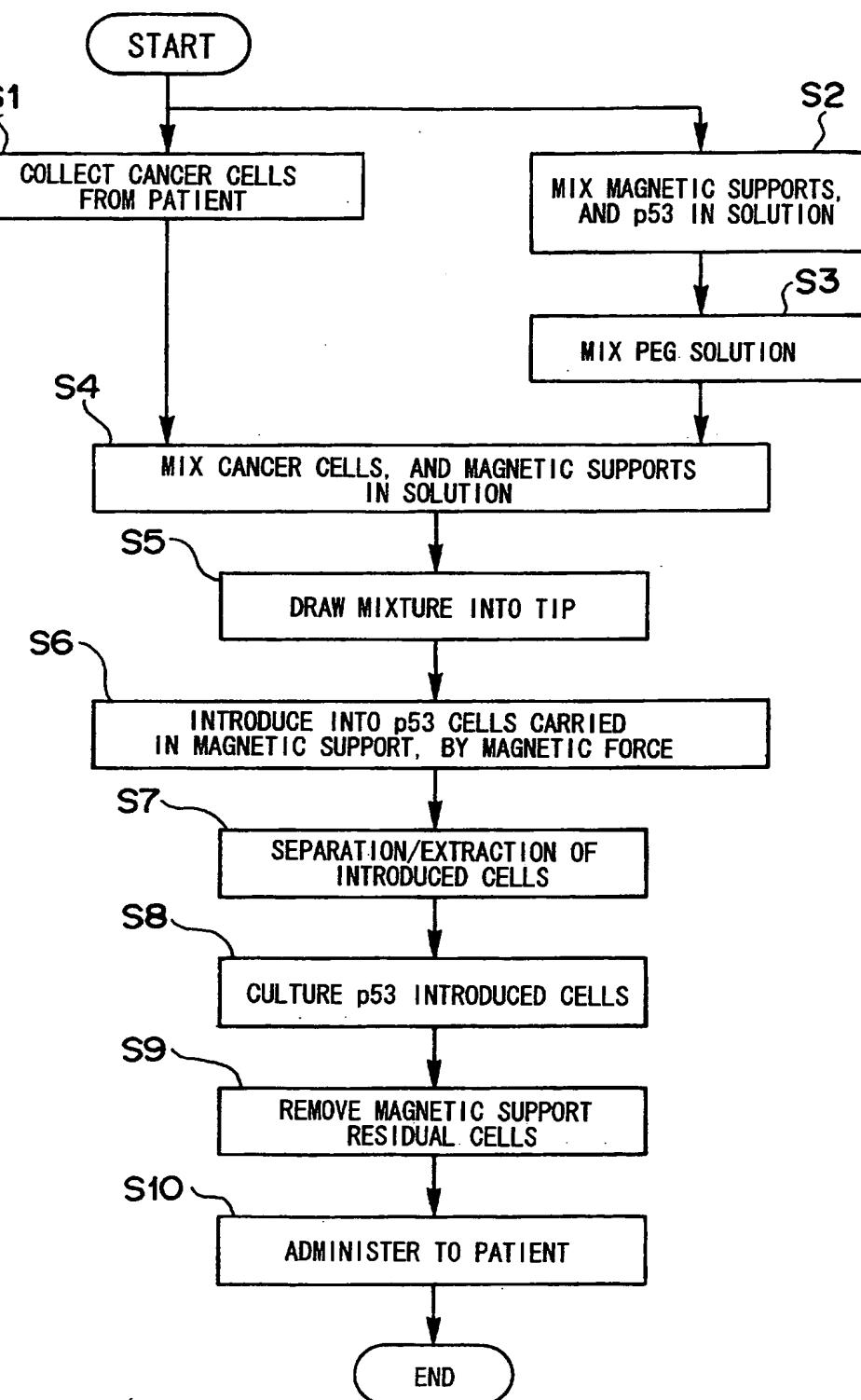


FIG. 12

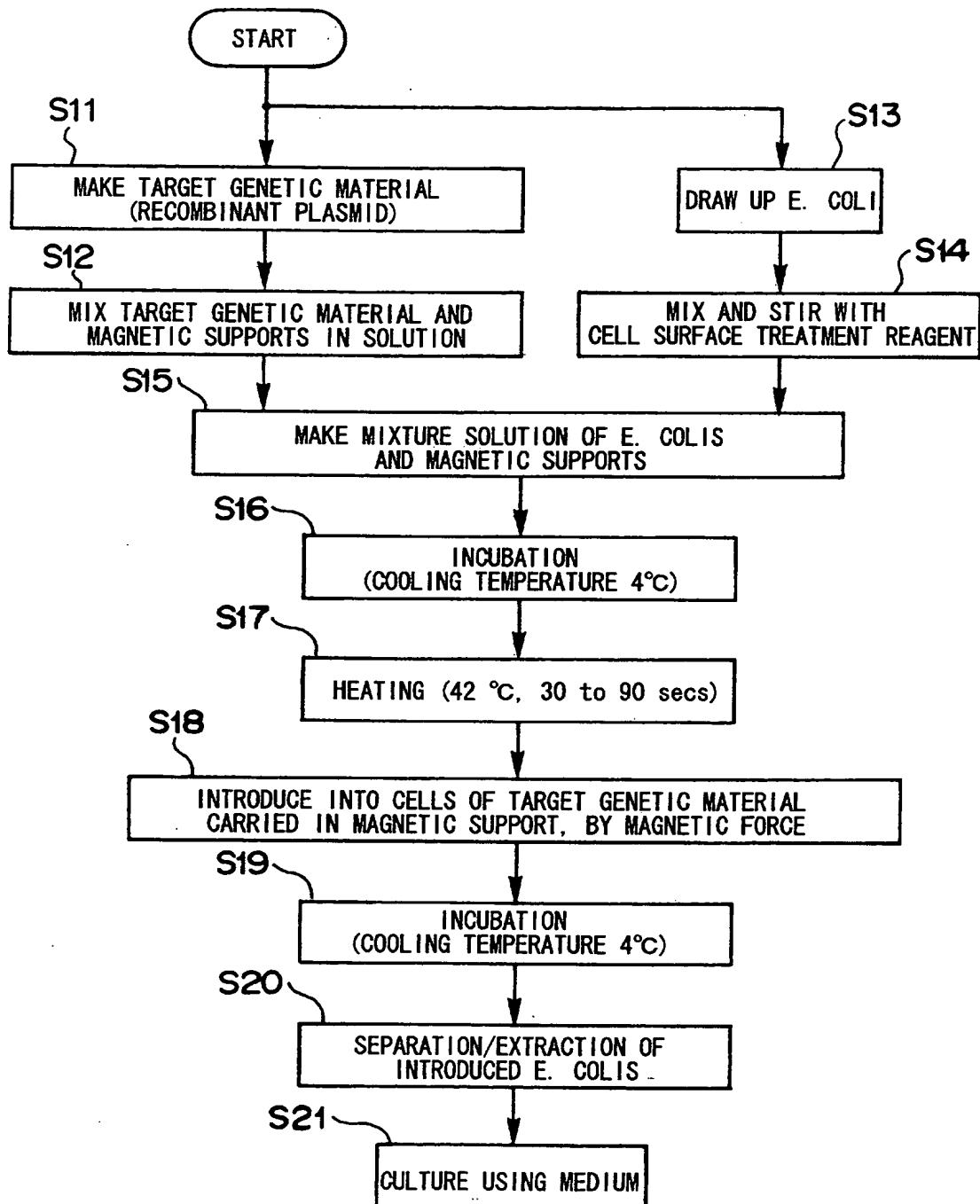
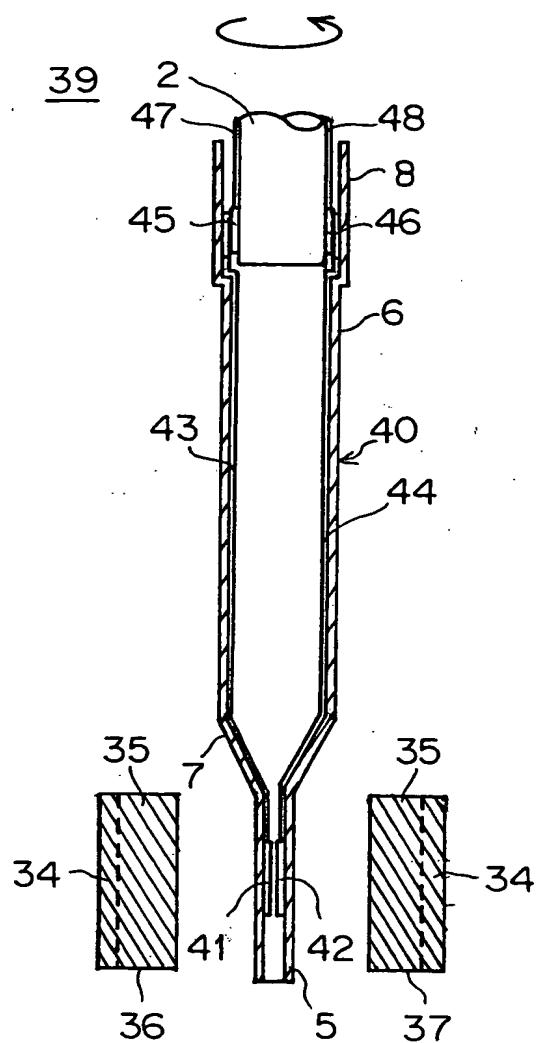
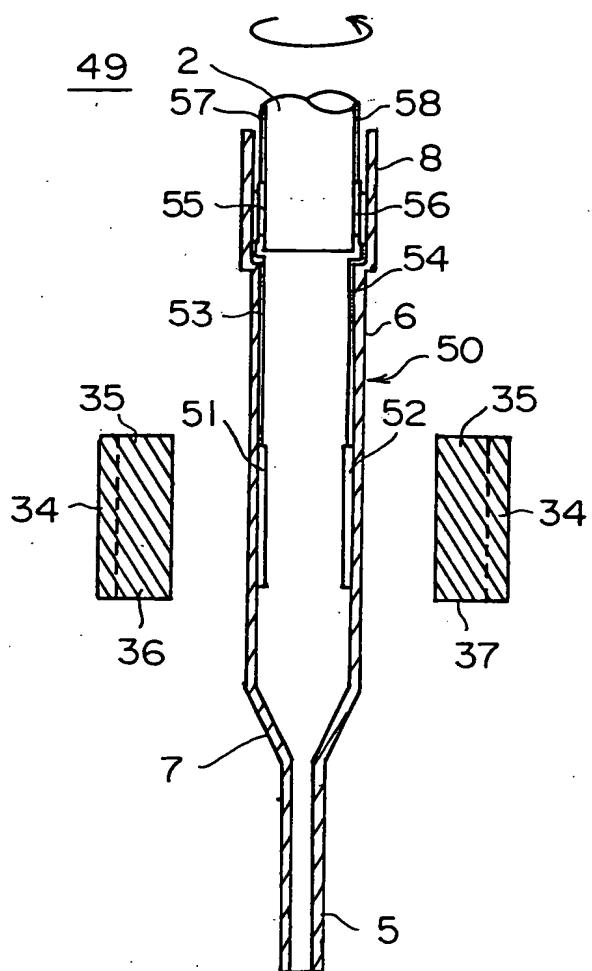


FIG. 13

(1)



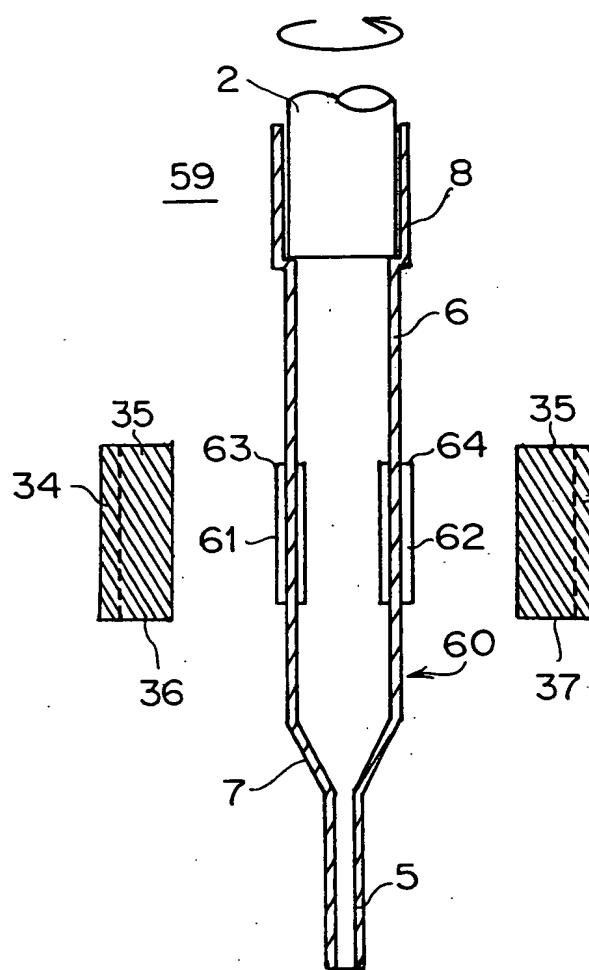
(2)



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FIG. 14

(1)



(2)

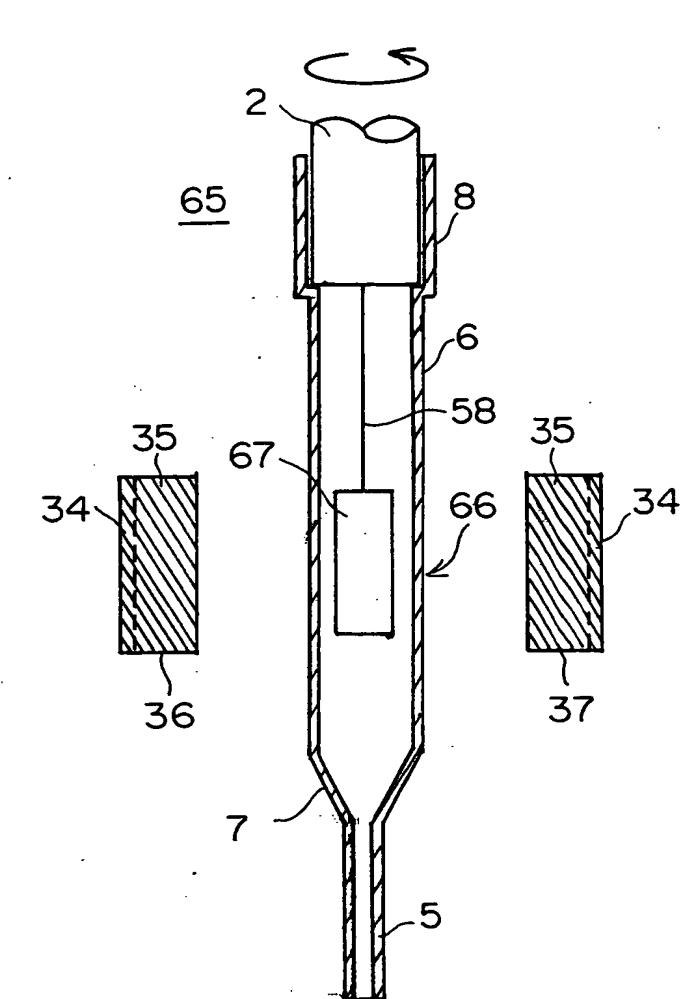
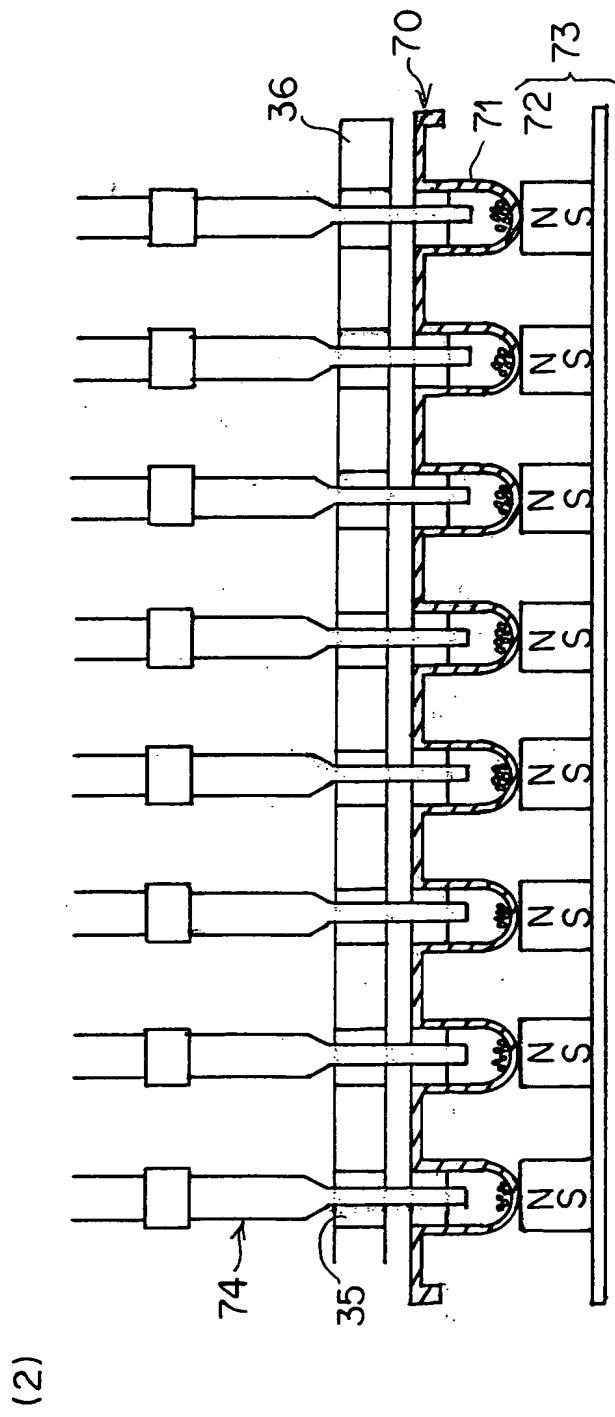
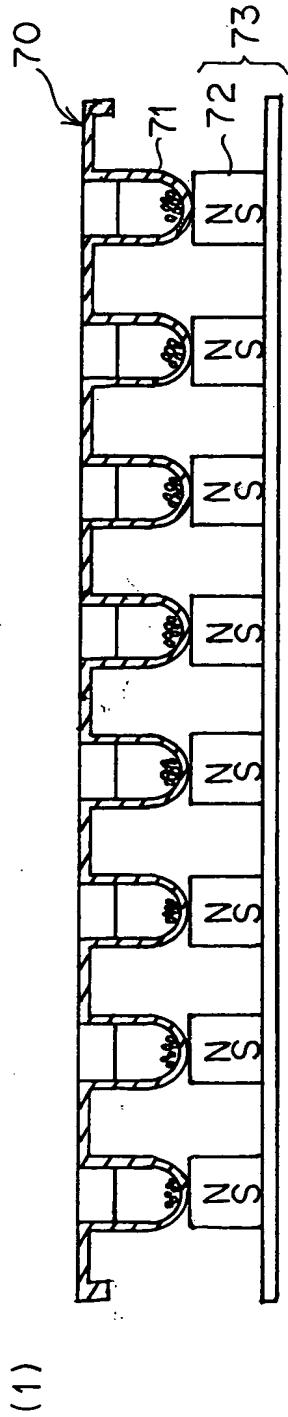


FIG. 15



- 1, 14 ... Apparatus for introducing a biological material
- 2 ... Nozzle
- 3, 40, 50, 60, 66 ... Tip
- 4 ... Annular permanent magnet
- 5 ... Liquid passage
- 6 ... Storage unit
- 13 ... Magnetic support layer
- 17, 39, 49, 59, 65 ... Nozzle unit
- 27 ... Magnetic force treatment unit
- 31, 32, 33 ... Heated / cooled area
- 36, 37 ... Linear magnetic sources
- 41, 42, 51, 52, 61, 62 ... Electrodes
- 67 ... Ultrasonic oscillator